

Zaher Mundher Yaseen

List of Publications by Citations

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277
papers

6,971
citations

47
h-index

70
g-index

293
ext. papers

9,697
ext. citations

4.1
avg, IF

7.3
L-index

#	Paper	IF	Citations
277	An enhanced extreme learning machine model for river flow forecasting: State-of-the-art, practical applications in water resource engineering area and future research direction. <i>Journal of Hydrology</i> , 2019 , 569, 387-408	6	324
276	Artificial intelligence based models for stream-flow forecasting: 2000-2015. <i>Journal of Hydrology</i> , 2015 , 530, 829-844	6	269
275	Stream-flow forecasting using extreme learning machines: A case study in a semi-arid region in Iraq. <i>Journal of Hydrology</i> , 2016 , 542, 603-614	6	191
274	Predicting compressive strength of lightweight foamed concrete using extreme learning machine model. <i>Advances in Engineering Software</i> , 2018 , 115, 112-125	3.6	169
273	A survey on river water quality modelling using artificial intelligence models: 2000-2020. <i>Journal of Hydrology</i> , 2020 , 585, 124670	6	143
272	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. <i>Journal of Hydrology</i> , 2017 , 554, 263-276	6	134
271	Pan evaporation prediction using a hybrid multilayer perceptron-firefly algorithm (MLP-FFA) model: case study in North Iran. <i>Theoretical and Applied Climatology</i> , 2018 , 133, 1119-1131	3	106
270	Reference evapotranspiration prediction using hybridized fuzzy model with firefly algorithm: Regional case study in Burkina Faso. <i>Agricultural Water Management</i> , 2018 , 208, 140-151	5.9	102
269	ANN Based Sediment Prediction Model Utilizing Different Input Scenarios. <i>Water Resources Management</i> , 2015 , 29, 1231-1245	3.7	101
268	Quantifying hourly suspended sediment load using data mining models: Case study of a glacierized Andean catchment in Chile. <i>Journal of Hydrology</i> , 2018 , 567, 165-179	6	99
267	Application of artificial intelligence (AI) techniques in water quality index prediction: a case study in tropical region, Malaysia. <i>Neural Computing and Applications</i> , 2017 , 28, 893-905	4.8	88
266	Application of soft computing based hybrid models in hydrological variables modeling: a comprehensive review. <i>Theoretical and Applied Climatology</i> , 2017 , 128, 875-903	3	86
265	Development of multivariate adaptive regression spline integrated with differential evolution model for streamflow simulation. <i>Journal of Hydrology</i> , 2019 , 573, 1-12	6	82
264	Rainfall Pattern Forecasting Using Novel Hybrid Intelligent Model Based ANFIS-FFA. <i>Water Resources Management</i> , 2018 , 32, 105-122	3.7	82
263	Zwitterion composite chitosan-epichlorohydrin/zeolite for adsorption of methylene blue and reactive red 120 dyes. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 756-765	7.9	80
262	Genetic programming in water resources engineering: A state-of-the-art review. <i>Journal of Hydrology</i> , 2018 , 566, 643-667	6	79
261	Thin and sharp edges bodies-fluid interaction simulation using cut-cell immersed boundary method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 860-877	4.5	75

260	Past, present and prospect of an Artificial Intelligence (AI) based model for sediment transport prediction. <i>Journal of Hydrology</i> , 2016 , 541, 902-913	6	75
259	Non-tuned data intelligent model for soil temperature estimation: A new approach. <i>Geoderma</i> , 2018 , 330, 52-64	6.7	75
258	Hybrid Adaptive Neuro-Fuzzy Models for Water Quality Index Estimation. <i>Water Resources Management</i> , 2018 , 32, 2227-2245	3.7	72
257	Enhancing Long-Term Streamflow Forecasting and Predicting using Periodicity Data Component: Application of Artificial Intelligence. <i>Water Resources Management</i> , 2016 , 30, 4125-4151	3.7	72
256	Temperature-based modeling of reference evapotranspiration using several artificial intelligence models: application of different modeling scenarios. <i>Theoretical and Applied Climatology</i> , 2019 , 135, 449-462	3.462	72
255	The potential of hybrid evolutionary fuzzy intelligence model for suspended sediment concentration prediction. <i>Catena</i> , 2019 , 174, 11-23	5.8	71
254	Shear strength prediction of steel fiber reinforced concrete beam using hybrid intelligence models: A new approach. <i>Engineering Structures</i> , 2018 , 177, 244-255	4.7	67
253	Meteorological data mining and hybrid data-intelligence models for reference evaporation simulation: A case study in Iraq. <i>Computers and Electronics in Agriculture</i> , 2019 , 167, 105041	6.5	66
252	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. <i>Water (Switzerland)</i> , 2019 , 11, 1096	3	65
251	Soil moisture simulation using hybrid artificial intelligent model: Hybridization of adaptive neuro fuzzy inference system with grey wolf optimizer algorithm. <i>Journal of Hydrology</i> , 2019 , 575, 544-556	6	64
250	RBFNN versus FFNN for daily river flow forecasting at Johor River, Malaysia. <i>Neural Computing and Applications</i> , 2016 , 27, 1533-1542	4.8	62
249	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 90-106	4.5	59
248	Development of artificial intelligence for modeling wastewater heavy metal removal: State of the art, application assessment and possible future research. <i>Journal of Cleaner Production</i> , 2020 , 250, 119473	10.3	59
247	Complementary data-intelligence model for river flow simulation. <i>Journal of Hydrology</i> , 2018 , 567, 180-190		59
246	Implementation of a hybrid MLP-FFA model for water level prediction of Lake Egirdir, Turkey. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 1683-1697	3.5	58
245	Compressive strength of Foamed Cellular Lightweight Concrete simulation: New development of hybrid artificial intelligence model. <i>Construction and Building Materials</i> , 2020 , 230, 117048	6.7	58
244	Shear strength of SFRCB without stirrups simulation: implementation of hybrid artificial intelligence model. <i>Engineering With Computers</i> , 2020 , 36, 1-11	4.5	57
243	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. <i>Water (Switzerland)</i> , 2019 , 11, 502	3	56

242	. <i>IEEE Access</i> , 2019 , 7, 74471-74481	3.5	55
241	. <i>IEEE Access</i> , 2020 , 8, 32632-32651	3.5	55
240	Application of the Hybrid Artificial Neural Network Coupled with Rolling Mechanism and Grey Model Algorithms for Streamflow Forecasting Over Multiple Time Horizons. <i>Water Resources Management</i> , 2018 , 32, 1883-1899	3.7	55
239	Dew Point Temperature Estimation: Application of Artificial Intelligence Model Integrated with Nature-Inspired Optimization Algorithms. <i>Water (Switzerland)</i> , 2019 , 11, 742	3	52
238	Non-tuned machine learning approach for hydrological time series forecasting. <i>Neural Computing and Applications</i> , 2018 , 30, 1479-1491	4.8	51
237	Shear strength of steel fiber-unconfined reinforced concrete beam simulation: Application of novel intelligent model. <i>Composite Structures</i> , 2019 , 212, 230-242	5.3	51
236	Copula based assessment of meteorological drought characteristics: Regional investigation of Iran. <i>Agricultural and Forest Meteorology</i> , 2019 , 276-277, 107611	5.8	50
235	Complete ensemble empirical mode decomposition hybridized with random forest and kernel ridge regression model for monthly rainfall forecasts. <i>Journal of Hydrology</i> , 2020 , 584, 124647	6	50
234	An insight into machine learning models era in simulating soil, water bodies and adsorption heavy metals: Review, challenges and solutions. <i>Chemosphere</i> , 2021 , 277, 130126	8.4	50
233	Determination of compound channel apparent shear stress: application of novel data mining models. <i>Journal of Hydroinformatics</i> , 2019 , 21, 798-811	2.6	49
232	River water quality index prediction and uncertainty analysis: A comparative study of machine learning models. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104599	6.8	49
231	Estimation the Physical Variables of Rainwater Harvesting System Using Integrated GIS-Based Remote Sensing Approach. <i>Water Resources Management</i> , 2016 , 30, 3299-3313	3.7	47
230	Learning from Multiple Models Using Artificial Intelligence to Improve Model Prediction Accuracies: Application to River Flows. <i>Water Resources Management</i> , 2018 , 32, 4201-4215	3.7	46
229	Evolutionary computational intelligence algorithm coupled with self-tuning predictive model for water quality index determination. <i>Journal of Hydrology</i> , 2020 , 587, 124974	6	46
228	Statistical modeling and mechanistic pathway for methylene blue dye removal by high surface area and mesoporous grass-based activated carbon using K ₂ CO ₃ activator. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105530	6.8	46
227	The potential of novel data mining models for global solar radiation prediction. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 7147-7164	3.3	45
226	Electronic and magnetic properties of single-layer boron phosphide associated with materials processing defects. <i>Computational Materials Science</i> , 2019 , 170, 109201	3.2	44
225	The implementation of univariable scheme-based air temperature for solar radiation prediction: New development of dynamic evolving neural-fuzzy inference system model. <i>Applied Energy</i> , 2019 , 241, 184-195	10.7	44

224	Survey of different data-intelligent modeling strategies for forecasting air temperature using geographic information as model predictors. <i>Computers and Electronics in Agriculture</i> , 2018 , 152, 242-260	6.5	44
223	River suspended sediment load prediction based on river discharge information: application of newly developed data mining models. <i>Hydrological Sciences Journal</i> , 2020 , 65, 624-637	3.5	44
222	Incorporating synoptic-scale climate signals for streamflow modelling over the Mediterranean region using machine learning models. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1240-1252	3.5	43
221	Modeling monthly pan evaporation process over the Indian central Himalayas: application of multiple learning artificial intelligence model. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 323-338	4.5	42
220	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. <i>Water (Switzerland)</i> , 2018 , 10, 1124	3	42
219	. <i>IEEE Access</i> , 2019 , 7, 141533-141548	3.5	41
218	Spatial and temporal risk quotient based river assessment for water resources management. <i>Environmental Pollution</i> , 2019 , 248, 133-144	9.3	39
217	A hybrid bat-swarm algorithm for optimizing dam and reservoir operation. <i>Neural Computing and Applications</i> , 2019 , 31, 8807-8821	4.8	39
216	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. <i>Scientific Reports</i> , 2020 , 10, 4684	4.9	38
215	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 811-823	4.5	36
214	The influence of climatic inputs on stream-flow pattern forecasting: case study of Upper Senegal River. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	36
213	RBFNN-based model for heavy metal prediction for different climatic and pollution conditions. <i>Neural Computing and Applications</i> , 2017 , 28, 1991-2003	4.8	35
212	Prediction of surface water total dissolved solids using hybridized wavelet-multigene genetic programming: New approach. <i>Journal of Hydrology</i> , 2020 , 589, 125335	6	35
211	ForecastTBAn R Package as a Test-Bench for Time Series ForecastingApplication of Wind Speed and Solar Radiation Modeling. <i>Energies</i> , 2020 , 13, 2578	3.1	34
210	Global Solar Radiation Estimation and Climatic Variability Analysis Using Extreme Learning Machine Based Predictive Model. <i>IEEE Access</i> , 2020 , 8, 12026-12042	3.5	34
209	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. <i>Knowledge-Based Systems</i> , 2021 , 230, 107379	7.3	34
208	Load-carrying capacity and mode failure simulation of beam-column joint connection: Application of self-tuning machine learning model. <i>Engineering Structures</i> , 2019 , 194, 220-229	4.7	33
207	Iran's Agriculture in the Anthropocene. <i>Earths Future</i> , 2020 , 8, e2020EF001547	7.9	33

206	Prediction of Risk Delay in Construction Projects Using a Hybrid Artificial Intelligence Model. <i>Sustainability</i> , 2020 , 12, 1514	3.6	32
205	Hourly River Flow Forecasting: Application of Emotional Neural Network Versus Multiple Machine Learning Paradigms. <i>Water Resources Management</i> , 2020 , 34, 1075-1091	3.7	32
204	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 70-89	4.5	32
203	Heavy metal contamination prediction using ensemble model: Case study of Bay sedimentation, Australia. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123492	12.8	32
202	Reinforced concrete deep beam shear strength capacity modelling using an integrative bio-inspired algorithm with an artificial intelligence model. <i>Engineering With Computers</i> , 2020 , 1	4.5	31
201	Forecasting surface water temperature in lakes: A comparison of approaches. <i>Journal of Hydrology</i> , 2020 , 585, 124809	6	30
200	Hybridized Extreme Learning Machine Model with Salp Swarm Algorithm: A Novel Predictive Model for Hydrological Application. <i>Complexity</i> , 2020 , 2020, 1-14	1.6	30
199	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 878-891	4.5	30
198	Drought index prediction using advanced fuzzy logic model: Regional case study over Kumaon in India. <i>PLoS ONE</i> , 2020 , 15, e0233280	3.7	30
197	Global Solar Radiation Prediction Using Hybrid Online Sequential Extreme Learning Machine Model. <i>Energies</i> , 2018 , 11, 3415	3.1	30
196	Evaluating severity-area-frequency (SAF) of seasonal droughts in Bangladesh under climate change scenarios. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 447-464	3.5	29
195	Efficiency evaluation of reverse osmosis desalination plant using hybridized multilayer perceptron with particle swarm optimization. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 15278-15291	5.1	29
194	. <i>IEEE Access</i> , 2020 , 8, 51884-51904	3.5	29
193	Application of newly developed ensemble machine learning models for daily suspended sediment load prediction and related uncertainty analysis. <i>Hydrological Sciences Journal</i> , 2020 , 65, 2022-2042	3.5	27
192	Prediction of sediment heavy metal at the Australian Bays using newly developed hybrid artificial intelligence models. <i>Environmental Pollution</i> , 2021 , 268, 115663	9.3	27
191	Precipitation pattern modeling using cross-station perception: regional investigation. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	27
190	Pressure drops of fresh cemented paste backfills through coupled test loop experiments and machine learning techniques. <i>Powder Technology</i> , 2020 , 361, 748-758	5.2	26
189	Simulation of the depth scouring downstream sluice gate: The validation of newly developed data-intelligent models. <i>Journal of Hydro-Environment Research</i> , 2020 , 29, 20-30	2.3	26

188	Manganese (Mn) removal prediction using extreme gradient model. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 204, 111059	7	26
187	Reliability-based structural design optimization: hybridized conjugate mean value approach. <i>Engineering With Computers</i> , 2021 , 37, 381-394	4.5	26
186	Evaporation process modelling over northern Iran: application of an integrative data-intelligence model with the krill herd optimization algorithm. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1843-1856	3.5	25
185	Annual Rainfall Forecasting Using Hybrid Artificial Intelligence Model: Integration of Multilayer Perceptron with Whale Optimization Algorithm. <i>Water Resources Management</i> , 2020 , 34, 733-746	3.7	25
184	On the complexities of sediment load modeling using integrative machine learning: Application of the great river of Loġa in Puerto Rico. <i>Journal of Hydrology</i> , 2020 , 585, 124759	6	24
183	Changes in Climatic Water Availability and Crop Water Demand for Iraq Region. <i>Sustainability</i> , 2020 , 12, 3437	3.6	24
182	Investigation of silica polymorphs stratified in siliceous geode using FTIR and XRD methods. <i>Materials Chemistry and Physics</i> , 2019 , 228, 45-50	4.4	24
181	Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model. <i>Energy Reports</i> , 2021 , 7, 136-157	4.6	24
180	Functionalization of remote sensing and on-site data for simulating surface water dissolved oxygen: Development of hybrid tree-based artificial intelligence models. <i>Marine Pollution Bulletin</i> , 2021 , 170, 112639	6.7	24
179	What Is the Potential of Integrating Phase Space Reconstruction with SVM-FFA Data-Intelligence Model? Application of Rainfall Forecasting over Regional Scale. <i>Water Resources Management</i> , 2018 , 32, 3935-3959	3.7	23
178	Open Channel Sluice Gate Scouring Parameters Prediction: Different Scenarios of Dimensional and Non-Dimensional Input Parameters. <i>Water (Switzerland)</i> , 2019 , 11, 353	3	21
177	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. <i>Water (Switzerland)</i> , 2018 , 10, 807	3	21
176	Hybridization of artificial intelligence models with nature inspired optimization algorithms for lake water level prediction and uncertainty analysis. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 2193-2208	6.1	21
175	Groundwater availability and water demand sustainability over the upper mega aquifers of Arabian Peninsula and west region of Iraq. <i>Environment, Development and Sustainability</i> , 2021 , 23, 1-21	4.5	21
174	A Novel Hybrid Evolutionary Data-Intelligence Algorithm for Irrigation and Power Production Management: Application to Multi-Purpose Reservoir Systems. <i>Sustainability</i> , 2019 , 11, 1953	3.6	20
173	Shallow Foundation Settlement Quantification: Application of Hybridized Adaptive Neuro-Fuzzy Inference System Model. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-14	1.3	20
172	Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks. <i>Scientific Reports</i> , 2021 , 11, 17497	4.9	20
171	Drought interval simulation using functional data analysis. <i>Journal of Hydrology</i> , 2019 , 579, 124141	6	19

170	Smart Water Technology for Efficient Water Resource Management: A Review. <i>Energies</i> , 2020 , 13, 6268	3.1	18
169	The Feasibility of Integrative Radial Basis M5Tree Predictive Model for River Suspended Sediment Load Simulation. <i>Water Resources Management</i> , 2019 , 33, 4471-4490	3.7	18
168	Laundry wastewater treatment using a combination of sand filter, bio-char and teff straw media. <i>Scientific Reports</i> , 2019 , 9, 18709	4.9	18
167	Determination of biochemical oxygen demand and dissolved oxygen for semi-arid river environment: application of soft computing models. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 923-937	5.1	18
166	Permeability prediction of porous media using a combination of computational fluid dynamics and hybrid machine learning methods. <i>Engineering With Computers</i> , 2020 , 37, 3455	4.5	17
165	Pan Evaporation Estimation in Uttarakhand and Uttar Pradesh States, India: Validity of an Integrative Data Intelligence Model. <i>Atmosphere</i> , 2020 , 11, 553	2.7	17
164	New stochastic modeling strategy on the prediction enhancement of pier scour depth in cohesive bed materials. <i>Journal of Hydroinformatics</i> , 2020 , 22, 457-472	2.6	17
163	Particulate matter concentration from open-cut coal mines: A hybrid machine learning estimation. <i>Environmental Pollution</i> , 2020 , 263, 114517	9.3	17
162	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. <i>Hydrological Sciences Journal</i> , 2020 , 65, 1145-1157	3.5	16
161	The Application of Soft Computing Models and Empirical Formulations for Hydraulic Structure Scouring Depth Simulation: A Comprehensive Review, Assessment and Possible Future Research Direction. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 423-447	7.8	16
160	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. <i>Scientific Reports</i> , 2021 , 11, 3435	4.9	16
159	Proposition of New Ensemble Data-Intelligence Models for Surface Water Quality Prediction. <i>IEEE Access</i> , 2021 , 9, 108527-108541	3.5	16
158	The Implementation of a Hybrid Model for Hilly Sub-Watershed Prioritization Using Morphometric Variables: Case Study in India. <i>Water (Switzerland)</i> , 2019 , 11, 1138	3	15
157	The Hybridization of Ensemble Empirical Mode Decomposition with Forecasting Models: Application of Short-Term Wind Speed and Power Modeling. <i>Energies</i> , 2020 , 13, 1666	3.1	14
156	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction. <i>IEEE Access</i> , 2020 , 8, 83347-83358	3.5	14
155	Late Age Dynamic Strength of High-Volume Fly Ash Concrete with Nano-Silica and Polypropylene Fibres. <i>Crystals</i> , 2020 , 10, 243	2.3	14
154	Optimization of Reservoir Operation using New Hybrid Algorithm. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 4668-4680	1.9	14
153	Long-term modelling of wind speeds using six different heuristic artificial intelligence approaches. <i>International Journal of Climatology</i> , 2019 , 39, 3543-3557	3.5	14

152	Prediction of copper ions adsorption by attapulgite adsorbent using tuned-artificial intelligence model. <i>Chemosphere</i> , 2021 , 276, 130162	8.4	14
151	Development of Advanced Computer Aid Model for Shear Strength of Concrete Slender Beam Prediction. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3811	2.6	13
150	Energy analysis using carbon and metallic oxides-based nanomaterials inside a solar collector. <i>Energy Reports</i> , 2020 , 6, 1373-1381	4.6	13
149	Trend analysis of streamflow with different time scales: a case study of the upper Senegal River. <i>ISH Journal of Hydraulic Engineering</i> , 2018 , 24, 105-114	1.5	13
148	River water level prediction in coastal catchment using hybridized relevance vector machine model with improved grasshopper optimization. <i>Journal of Hydrology</i> , 2021 , 598, 126477	6	13
147	Limited descent-based mean value method for inverse reliability analysis. <i>Engineering With Computers</i> , 2019 , 35, 1237-1249	4.5	13
146	Analysis of dry and wet climate characteristics at Uttarakhand (India) using effective drought index. <i>Natural Hazards</i> , 2021 , 105, 1643-1662	3	13
145	Determination and Assessment of the Toxic Heavy Metal Elements Abstracted from the Traditional Plant Cosmetics and Medical Remedies: Case Study of Libya. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	12
144	Surrogate permeability modelling of low-permeable rocks using convolutional neural networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 366, 113103	5.7	12
143	The Capacity of the Hybridizing Wavelet Transformation Approach With Data-Driven Models for Modeling Monthly-Scale Streamflow. <i>IEEE Access</i> , 2020 , 8, 101993-102006	3.5	12
142	Beam-column joint shear prediction using hybridized deep learning neural network with genetic algorithm. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 143, 012025	0.3	12
141	Fiberglass-Reinforced Polyester Composites Fatigue Prediction Using Novel Data-Intelligence Model. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 3343-3356	2.5	12
140	Modern Artificial Intelligence Model Development for Undergraduate Student Performance Prediction: An Investigation on Engineering Mathematics Courses. <i>IEEE Access</i> , 2020 , 8, 136697-136724	3.5	12
139	Groundwater level prediction using machine learning models: A comprehensive review. <i>Neurocomputing</i> , 2022 , 489, 271-308	5.4	12
138	Predicting reinforcing bar development length using polynomial chaos expansions. <i>Engineering Structures</i> , 2019 , 195, 524-535	4.7	11
137	Evaluating Physical and Fiscal Water Leakage in Water Distribution System. <i>Water (Switzerland)</i> , 2019 , 11, 2091	3	11
136	Application of nature-inspired optimization algorithms to ANFIS model to predict wave-induced scour depth around pipelines. <i>Journal of Hydroinformatics</i> , 2020 , 22, 1425-1451	2.6	11
135	Experimental and Numerical Analysis for Earth-Fill Dam Seepage. <i>Sustainability</i> , 2020 , 12, 2490	3.6	11

134	Modelling infiltration rates in permeable stormwater channels using soft computing techniques*. <i>Irrigation and Drainage</i> , 2021 , 70, 117-130	1.1	11
133	Estimation of triangular side orifice discharge coefficient under a free flow condition using data-driven models. <i>Flow Measurement and Instrumentation</i> , 2021 , 77, 101878	2.2	11
132	Performance of full-scale coagulation-flocculation/DAF as a pre-treatment technology for biodegradability enhancement of high strength wastepaper-recycling wastewater. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 33978-33991	5.1	11
131	Lake water level modeling using newly developed hybrid data intelligence model. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 1285-1300	3	10
130	Development of new machine learning model for streamflow prediction: case studies in Pakistan. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	10
129	Construction of functional data analysis modeling strategy for global solar radiation prediction: application of cross-station paradigm. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 1165-1181	4.5	10
128	Emerging Technologies of Deep Learning Models Development for Pavement Temperature Prediction. <i>IEEE Access</i> , 2021 , 9, 23840-23849	3.5	10
127	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. <i>Information Sciences</i> , 2021 , 570, 172-184	7.7	10
126	Strategic Assessment of Dam Overtopping Reliability Using a Stochastic Process Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 04020029	1.8	9
125	Scouring Depth Assessment Downstream of Weirs Using Hybrid Intelligence Models. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3714	2.6	9
124	Application of novel data mining algorithms in prediction of discharge and end depth in trapezoidal sections. <i>Computers and Electronics in Agriculture</i> , 2020 , 170, 105283	6.5	9
123	A novel intelligent deep learning predictive model for meteorological drought forecasting. <i>Journal of Ambient Intelligence and Humanized Computing</i> ,1	3.7	9
122	Cross-Linked Chitosan-Glyoxal/Kaolin Clay Composite: Parametric Optimization for Color Removal and COD Reduction of Remazol Brilliant Blue R Dye. <i>Journal of Polymers and the Environment</i> ,1	4.5	9
121	Modeling soil temperature using air temperature features in diverse climatic conditions with complementary machine learning models. <i>Computers and Electronics in Agriculture</i> , 2021 , 185, 106158	6.5	9
120	Performance of the novel C-purlin tubular beams filled with recycled-lightweight concrete strengthened with CFRP sheet. <i>Journal of Building Engineering</i> , 2021 , 43, 102532	5.2	9
119	FAO CROPWAT Model-Based Irrigation Requirements for Coconut to Improve Crop and Water Productivity in Kerala, India. <i>Sustainability</i> , 2019 , 11, 5132	3.6	8
118	Designing a New Data Intelligence Model for Global Solar Radiation Prediction: Application of Multivariate Modeling Scheme. <i>Energies</i> , 2019 , 12, 1365	3.1	8
117	Solar irradiation prediction intervals based on Box-Cox transformation and univariate representation of periodic autoregressive model. <i>Renewable Energy Focus</i> , 2020 , 33, 43-53	5.4	8

116	Optimized parameter estimation of a PEMFC model based on improved Grass Fibrous Root Optimization Algorithm. <i>Energy Reports</i> , 2020 , 6, 1510-1519	4.6	8
115	State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations. <i>Sustainability</i> , 2020 , 12, 1676	3.6	8
114	Prediction of Potential Evapotranspiration Using Temperature-Based Heuristic Approaches. <i>Sustainability</i> , 2021 , 13, 297	3.6	8
113	Assessing the Uncertainty Associated with Flood Features due to Variability of Rainfall and Hydrological Parameters. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-9	1.3	8
112	Modeling wetted areas of moisture bulb for drip irrigation systems: An enhanced empirical model and artificial neural network. <i>Computers and Electronics in Agriculture</i> , 2020 , 178, 105767	6.5	8
111	Changes in monsoon rainfall distribution of Bangladesh using quantile regression model. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 1329-1342	3	8
110	Experimental and Theoretical Analysis of Energy Efficiency in a Flat Plate Solar Collector Using Monolayer Graphene Nanofluids. <i>Sustainability</i> , 2021 , 13, 5416	3.6	8
109	Assessing the Effectiveness of Using Recharge Wells for Controlling the Saltwater Intrusion in Unconfined Coastal Aquifers with Sloping Beds: Numerical Study. <i>Sustainability</i> , 2020 , 12, 2685	3.6	8
108	Prediction of lead (Pb) adsorption on attapulgate clay using the feasibility of data intelligence models. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 31670-31688	5.1	8
107	Sedimentary units-layering system and depositional model of the carbonate Mishrif reservoir in Rumaila oilfield, Southern Iraq. <i>Modeling Earth Systems and Environment</i> , 2018 , 4, 1449-1465	3.2	8
106	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1288	3	8
105	Variational mode decomposition based random forest model for solar radiation forecasting: New emerging machine learning technology. <i>Energy Reports</i> , 2021 , 7, 6700-6717	4.6	7
104	Chemical and isotope composition of the oilfield brines from Mishrif Formation (southern Iraq): Diagenesis and geothermometry. <i>Marine and Petroleum Geology</i> , 2020 , 122, 104637	4.7	7
103	Newly explored machine learning model for river flow time series forecasting at Mary River, Australia. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 761	3.1	7
102	Hybridized Deep Learning Model for Perfobond Rib Shear Strength Connector Prediction. <i>Complexity</i> , 2021 , 2021, 1-21	1.6	7
101	The development of evolutionary computing model for simulating reference evapotranspiration over Peninsular Malaysia. <i>Theoretical and Applied Climatology</i> , 2021 , 144, 1419-1434	3	7
100	On the investigation of COVID-19 lockdown influence on air pollution concentration: regional investigation over eighteen provinces in Iraq. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 50344-50362	5.1	7
99	Development of artificial intelligence models for well groundwater quality simulation: Different modeling scenarios. <i>PLoS ONE</i> , 2021 , 16, e0251510	3.7	7

98	Solving the pan evaporation process complexity using the development of multiple mode of neurocomputing models. <i>Theoretical and Applied Climatology</i> , 2021 , 145, 1521-1539	3	7
97	Improving daily stochastic streamflow prediction: comparison of novel hybrid data-mining algorithms. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1457-1474	3.5	7
96	Pressure Vessel Design Simulation 2019 ,		6
95	An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. <i>Energy Reports</i> , 2021 , 7, 7854-7877	4.6	6
94	An evolutionary optimized artificial intelligence model for modeling scouring depth of submerged weir. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 96, 104012	7.2	6
93	Forecasting long-term precipitation for water resource management: a new multi-step data-intelligent modelling approach. <i>Hydrological Sciences Journal</i> , 2020 , 65, 2693-2708	3.5	6
92	Underground Barrier Wall Evaluation for Controlling Saltwater Intrusion in Sloping Unconfined Coastal Aquifers. <i>Water (Switzerland)</i> , 2020 , 12, 2403	3	6
91	Sourcing CHIRPS precipitation data for streamflow forecasting using intrinsic time-scale decomposition based machine learning models. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1437-1456	3.5	6
90	Prediction of dissolved oxygen, biochemical oxygen demand, and chemical oxygen demand using hydrometeorological variables: case study of Selangor River, Malaysia. <i>Environment, Development and Sustainability</i> , 2021 , 23, 8027-8046	4.5	6
89	A novel simulation optimization strategy for stochastic-based designing of flood control dam: A case study of Jamishan dam. <i>Journal of Flood Risk Management</i> , 2021 , 14, e12678	3.1	6
88	Shrewd vehicle framework model with a streamlined informed approach for green transportation in smart cities. <i>Environmental Impact Assessment Review</i> , 2021 , 87, 106542	5.3	6
87	Deep Learning for Prediction of Water Quality Index Classification: Tropical Catchment Environmental Assessment. <i>Natural Resources Research</i> , 1	4.9	6
86	System Dynamics Modeling Strategy for Civil Construction Projects: The Concept of Successive Legislation Periods. <i>Symmetry</i> , 2019 , 11, 677	2.7	5
85	A Comparison Between Reconstruction Methods for Generation of Synthetic Time Series Applied to Wind Speed Simulation. <i>IEEE Access</i> , 2019 , 7, 135386-135398	3.5	5
84	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1585-1612	4.5	5
83	Hybrid Data Intelligent Models and Applications for Water Level Prediction. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2018 , 121-139	0.4	5
82	Flexural Strength of Internally Stiffened Tubular Steel Beam Filled with Recycled Concrete Materials. <i>Materials</i> , 2021 , 14,	3.5	5
81	Hydrological Drought Investigation Using Streamflow Drought Index. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 63-88	0.4	5

80	An empirical estimation for time and memory algorithm complexities: newly developed R package. <i>Multimedia Tools and Applications</i> , 2021 , 80, 2997-3015	2.5	5
79	Performance evaluation of sediment ejector efficiency using hybrid neuro-fuzzy models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 627-643	4.5	5
78	Integrated Water Harvesting and Aquifer Recharge Evaluation Methodology Based on Remote Sensing and Geographical Information System: Case Study in Iraq. <i>Natural Resources Research</i> , 2021 , 30, 2119-2143	4.9	5
77	Integration of extreme gradient boosting feature selection approach with machine learning models: application of weather relative humidity prediction. <i>Neural Computing and Applications</i> ,1	4.8	5
76	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. <i>Powder Technology</i> , 2021 ,	5.2	5
75	Augmented chaos-multiple linear regression approach for prediction of wave parameters 2017 , 20, 1180-1191	4	
74	Nodal Matrix Analysis for Optimal Pressure-Reducing Valve Localization in a Water Distribution System. <i>Energies</i> , 2020 , 13, 1878	3.1	4
73	Deep learning versus gradient boosting machine for pan evaporation prediction. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 570-587	4.5	4
72	Drought Index Prediction Using Data Intelligent Analytic Models: A Review. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 1-27	0.4	4
71	Multi-variable model output statistics downscaling for the projection of spatio-temporal changes in rainfall of Borneo Island. <i>Journal of Hydro-Environment Research</i> , 2020 , 31, 62-75	2.3	4
70	Concrete corrosion in wastewater systems: Prediction and sensitivity analysis using advanced extreme learning machine. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 444	2.5	4
69	Advanced machine learning models development for suspended sediment prediction: comparative analysis study. <i>Geocarto International</i> ,1-25	2.7	4
68	Daily scale evapotranspiration prediction over the coastal region of southwest Bangladesh: new development of artificial intelligence model. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	4
67	Application of M5 model tree optimized with Excel Solver Platform for water quality parameter estimation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 7347-7364	5.1	4
66	Designing new hybrid artificial intelligence model for CFST beam flexural performance prediction. <i>Engineering With Computers</i> ,1	4.5	4
65	Simulation of foamed concrete compressive strength prediction using adaptive neuro-fuzzy inference system optimized by nature-inspired algorithms. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 61-79	2.5	4
64	Minimizing the Principle Stresses of Powerhoused Rock-Fill Dams Using Control Turbine Running Units: Application of Finite Element Method. <i>Water (Switzerland)</i> , 2018 , 10, 1138	3	4
63	. <i>IEEE Access</i> , 2021 , 9, 53617-53635	3.5	4

62	Optimizing Height and Spacing of Check Dam Systems for Better Grassed Channel Infiltration Capacity. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3725	2.6	3
61	Cross Assessment of Twenty-One Different Methods for Missing Precipitation Data Estimation. <i>Atmosphere</i> , 2020 , 11, 389	2.7	3
60	A novel and exact analytical model for determination of critical depth in trapezoidal open channels. <i>Flow Measurement and Instrumentation</i> , 2019 , 68, 101575	2.2	3
59	Development of new computational machine learning models for longitudinal dispersion coefficient determination: case study of natural streams, United States.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
58	Dual Water Choices: The Assessment of the Influential Factors on Water Sources Choices Using Unsupervised Machine Learning Market Basket Analysis. <i>IEEE Access</i> , 2021 , 1-1	3.5	3
57	Predictability performance enhancement for suspended sediment in rivers: Inspection of newly developed hybrid adaptive neuro-fuzzy system model. <i>International Journal of Sediment Research</i> , 2021 , 37, 383-383	3	3
56	Assessment of novel nature-inspired fuzzy models for predicting long contraction scouring and related uncertainties. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 665-681	2.5	3
55	Modeling spatial distribution of plant species using autoregressive logistic regression method-based conjugate search direction. <i>Plant Ecology</i> , 2019 , 220, 267-278	1.7	3
54	Simulating monthly streamflow using a hybrid feature selection approach integrated with an intelligence model. <i>Hydrological Sciences Journal</i> , 2020 , 65, 1374-1384	3.5	3
53	Estimation of natural streams longitudinal dispersion coefficient using hybrid evolutionary machine learning model. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1298-1320	4.5	3
52	A Systematic Operation Program of a Hydropower Plant Based on Minimizing the Principal Stress: Haditha Dam Case Study. <i>Water (Switzerland)</i> , 2018 , 10, 1270	3	3
51	Designing Low-Cost Capacitive-Based Soil Moisture Sensor and Smart Monitoring Unit Operated by Solar Cells for Greenhouse Irrigation Management. <i>Sensors</i> , 2021 , 21,	3.8	3
50	Daily scale river flow simulation: Hybridized fuzzy logic model with metaheuristic algorithms. <i>Hydrological Sciences Journal</i> ,	3.5	3
49	Investigation into the permeability and strength of pervious geopolymer concrete containing coated biomass aggregate material. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 2075-2087	5.5	3
48	The assessment of emerging data-intelligence technologies for modeling Mg and SO surface water quality. <i>Journal of Environmental Management</i> , 2021 , 300, 113774	7.9	3
47	Effect of land use land cover changes on land surface temperature during 1984-2020: a case study of Baghdad city using landsat image. <i>Natural Hazards</i> ,1	3	3
46	Bayesian Markov Chain Monte Carlo-Based Copulas: Factoring the Role of Large-Scale Climate Indices in Monthly Flood Prediction. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 29-47	0.4	2
45	Improved Permeability Prediction of Porous Media by Feature Selection and Machine Learning Methods Comparison. <i>Journal of Computing in Civil Engineering</i> , 2022 , 36,	5	2

44	Boosted artificial intelligence model using improved alpha-guided grey wolf optimizer for groundwater level prediction: Comparative study and insight for federated learning technology. <i>Journal of Hydrology</i> , 2022 , 606, 127384	6	2
43	A Monte Carlo based solar radiation forecastability estimation. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 026501	2.5	2
42	Integration of complete ensemble empirical mode decomposition with deep long short-term memory model for particulate matter concentration prediction. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 64818-64829	5.1	2
41	Proposition of New Metaphor-Less Algorithms for Reservoir Operation. <i>Complexity</i> , 2021 , 2021, 1-11	1.6	2
40	Heat Transfer and Hydrodynamic Properties Using Different Metal-Oxide Nanostructures in Horizontal Concentric Annular Tube: An Optimization Study. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
39	Drought Variability and Characteristics in the Muda River Basin of Malaysia from 1985 to 2019. <i>Atmosphere</i> , 2021 , 12, 1210	2.7	2
38	Assessing the Efficiency of Remote Sensing and Machine Learning Algorithms to Quantify Wheat Characteristics in the Nile Delta Region of Egypt. <i>Agriculture (Switzerland)</i> , 2022 , 12, 332	3	2
37	The impact of climate change on land degradation along with shoreline migration in Ghoramara Island, India. <i>Physics and Chemistry of the Earth</i> , 2022 , 103135	3	2
36	Integrative artificial intelligence models for Australian coastal sediment lead prediction: An investigation of in-situ measurements and meteorological parameters effects.. <i>Journal of Environmental Management</i> , 2022 , 309, 114711	7.9	2
35	Discharge coefficient prediction of canal radial gate using neurocomputing models: an investigation of free and submerged flow scenarios. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 1-19	4.5	2
34	Temporal dynamic drought interpretation of Sawa Lake: case study located at the Southern Iraqi region. <i>Natural Hazards</i> ,1	3	1
33	On the prediction of methane fluxes from pristine tropical peatland in Sarawak: application of a denitrification-decomposition (DNDC) model.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 30724	5.1	1
32	A new insight for real-time wastewater quality prediction using hybridized kernel-based extreme learning machines with advanced optimization algorithms. <i>Environmental Science and Pollution Research</i> , 2021 , 29, 20496	5.1	1
31	Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101772	4.7	1
30	Mutating fuzzy logic model with various rigorous meta-heuristic algorithms for soil moisture content estimation. <i>Agricultural Water Management</i> , 2021 , 261, 107342	5.9	1
29	Reinforcing bar development length modeling using integrative support vector regression model with response surface method: New approach. <i>ISA Transactions</i> , 2021 ,	5.5	1
28	Non-gradient probabilistic Gaussian global-best harmony search optimization for first-order reliability method. <i>Engineering With Computers</i> , 2020 , 36, 1189-1200	4.5	1
27	The Nature of Tigris&Euphrates Rivers Flow: Current Status and Future Prospective 2021 , 229-242		1

26	An Educational Web-Based Expert System for Novice Highway Technology in Flexible Pavement Maintenance. <i>Complexity</i> , 2021 , 2021, 1-17	1.6	1
25	Grasshopper Optimization Algorithm With Crossover Operators for Feature Selection and Solving Engineering Problems. <i>IEEE Access</i> , 2022 , 10, 23304-23320	3.5	1
24	Surface water sodium (Na) concentration prediction using hybrid weighted exponential regression model with gradient-based optimization.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
23	Reference evapotranspiration prediction using high-order response surface method. <i>Theoretical and Applied Climatology</i> , 2022 , 148, 849-867	3	1
22	Distributed Hydrological Model Based on Machine Learning Algorithm: Assessment of Climate Change Impact on Floods. <i>Sustainability</i> , 2022 , 14, 6620	3.6	1
21	Maximization of Water Productivity and Yield of Two Iceberg Lettuce Cultivars in Hydroponic Farming System Using Magnetically Treated Saline Water. <i>Agriculture (Switzerland)</i> , 2022 , 12, 101	3	0
20	Thermal effectiveness of solar collector using Graphene nanostructures suspended in ethylene glycol/water mixtures. <i>Energy Reports</i> , 2022 , 8, 1867-1882	4.6	0
19	Optimized Adaptive Neuro-Fuzzy Inference System Using Metaheuristic Algorithms: Application of Shield Tunnelling Ground Surface Settlement Prediction. <i>Complexity</i> , 2021 , 2021, 1-15	1.6	0
18	A functional autoregressive model based on exogenous hydrometeorological variables for river flow prediction. <i>Journal of Hydrology</i> , 2021 , 598, 126380	6	0
17	Hybrid multilayer perceptron-firefly optimizer algorithm for modelling photosynthetic active solar radiation for biofuel energy exploration 2021 , 191-232		0
16	Optimization of Layout and Pipe Sizes for Irrigation Pipe Distribution Network Using Steiner Point Concept. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-12	1.1	0
15	Need for developing a security robot-based risk management for emerging practices in the workplace using the Advanced Human-Robot Collaboration Model. <i>Work</i> , 2021 , 68, 825-834	1.6	0
14	Security and privacy issues related to the workplace-based security robot system. <i>Work</i> , 2021 , 68, 871-876	1.6	0
13	Determination of cotton and wheat yield using the standard precipitation evaporation index in Pakistan. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	0
12	Temperature and precipitation trend analysis of the Iraq Region under SRES scenarios during the twenty-first century. <i>Theoretical and Applied Climatology</i> , 1	3	0
11	Coupled online sequential extreme learning machine model with ant colony optimization algorithm for wheat yield prediction.. <i>Scientific Reports</i> , 2022 , 12, 5488	4.9	0
10	Earth skin temperature long-term prediction using novel extended Kalman filter integrated with Artificial Intelligence models and information gain feature selection. <i>Sustainable Computing: Informatics and Systems</i> , 2022 , 35, 100721	3	0
9	Student Performance Predictions for Advanced Engineering Mathematics Course with New Multivariate Copula Models. <i>IEEE Access</i> , 2022 , 1-1	3.5	0

8	An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction.. <i>Scientific Reports</i> , 2022 , 12, 4934	4.9	o
7	Long-term multi-step ahead forecasting of root zone soil moisture in different climates: Novel ensemble-based complementary data-intelligent paradigms. <i>Agricultural Water Management</i> , 2022 , 269, 107679	5.9	o
6	Households' perceptions and socio-economic determinants of climate change awareness: Evidence from Selangor Coast Malaysia. <i>Journal of Environmental Management</i> , 2022 , 316, 115261	7.9	o
5	Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization. <i>Knowledge-Based Systems</i> , 2022 , 250, 109048	7.3	o
4	New water resources technologies 2021 , 1-14		
3	Effect of Water Flooding on Oil Reservoir Permeability: Saturation Index Prediction Model for Giant Oil Reservoirs, Southern Iraq. <i>Natural Resources Research</i> , 1	4.9	
2	River water turbidity removal using new natural coagulant aids: case study of Euphrates River, Iraq. <i>Water Science and Technology: Water Supply</i> , 2022 , 22, 2721-2737	1.4	
1	Delineating the Crop-Land Dynamic due to Extreme Environment Using Landsat Datasets: A Case Study. <i>Agronomy</i> , 2022 , 12, 1268	3.6	